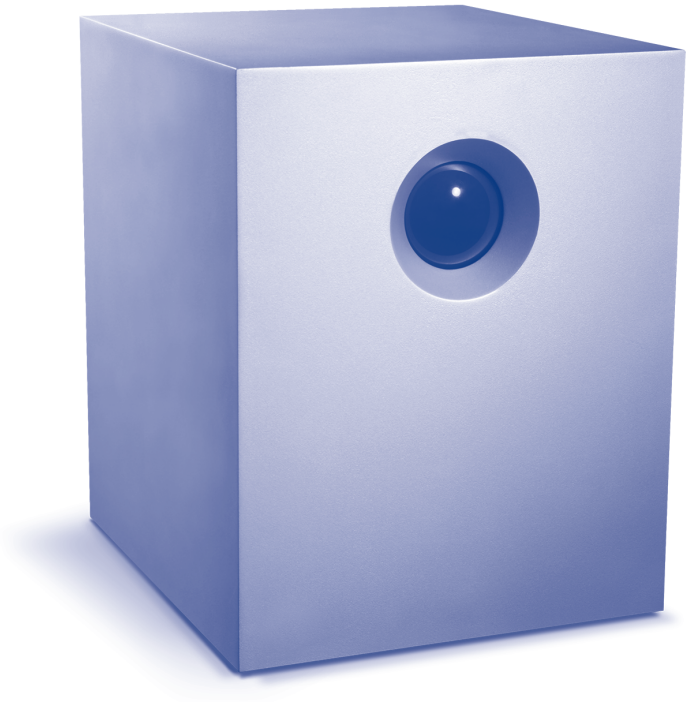
5big Storage Server

DESIGN BY NEIL POULTON



Quick Start Guide

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1. Introduction

1.1. Health and Safety Precautions

- Only qualified persons are authorized to carry out maintenance on this device.
- Read this Quick Start Guide carefully and follow the correct procedures when setting up the device.
- Do not open your LaCie 5big Storage Server or attempt to disassemble or modify it. Never insert any metallic object into the device or one of its drives to avoid any risk of electrical shock, fire, short-circuiting, or dangerous emissions. Your LaCie 5big Storage Server contains no user-serviceable parts. If it appears to be malfunctioning, have it inspected by a qualified LaCie Technical Support representative.
- Never expose your device to rain, or use it near water, or in damp or wet conditions. Never place objects containing liquids on the LaCie 5big Storage Server, as they may spill into its openings. Doing so increases the risk of electrical shock, short-circuiting, fire, or personal injury.
- Power requirements 100-240 V~, 1.44 A, 50-60 Hz, (supply voltage fluctuations not exceeding ± 10% of the nominal and transient over-voltages according to over-voltage category II).

1.2. General Use Precautions

- Do not expose your device to temperatures outside the range of 5° C to 35° C (41° F to 95° F); or to operational humidity beyond 5-80%, non-condensing, or non-operating humidity beyond 10-90%, non-condensing. Doing so may damage it or disfigure its casing. Avoid placing your device near a source of heat or exposing it to sunlight (even through a window). Inversely, placing your device in an environment that is too cold or humid may damage the unit.
- Always unplug the device from the electrical outlet if there is a risk of lightning or if it will be unused for an extended period of time. Otherwise, there is an increased risk of electrical shock, short-circuiting, or fire.
- Use only the power supply shipped with the device.
- Do not use the device near other electrical appliances such as televisions or radios. Doing so may cause interference which will adversely affect the operation of the other products.
- Do not place the device near sources of magnetic interference, such as computer displays, televisions, or speakers. Magnetic interference can affect the operation and stability of your device.
- Never use excessive force on your device.

NOTE: Any loss, corruption, or destruction of data while using a LaCie drive or drive system is the sole responsibility of the user, and under no circumstances will LaCie be held liable for the recovery or restoration of this data. To help prevent the loss of your data, LaCie highly recommends that you keep TWO copies of your data; one copy on your external hard disks or hard disk system, for instance, and a second copy either on your internal hard disk, another external hard disk, or some other form of removable storage media.

NOTE: 1GB = 1,000,000,000 bytes. 1TB = 1,000,000,000,000 bytes. Once formatted, the actual available storage capacity varies depending on operating environment (typically 10-15% less).

1.3. Box Content

Your LaCie 5big Storage Server package contains the system tower and an accessories box containing items 2-7 below:

1. LaCie 5big Storage Server
2. Cat 5E Ethernet cable
3. Power supply
4. 5big Storage Server CD (documentation and language packs)
5. 5big Storage Server Recovery DVD
6. Quick Install Guide
7. Drive lock tool

NOTE: Please save your packaging. In the event that the 5big Storage Server should need to be repaired or serviced, it must be returned in its original packaging.

1.4. Windows Storage Server 2008

Your 5big Storage Server is shipped with Windows Storage Server 2008 pre-installed. By following the proper steps for connecting and powering on the 5big Storage Server, you can begin configuring the device to meet the needs of the network.

1.5. Network Connection and Names

1.5.1. Minimum Connection Requirements

To successfully use the 5big Storage Server, your network must meet the following requirements:

Internet Connection	Minimum Recommended
Server connection	100 Mbps Ethernet wired connection. LaCie highly recommends using 1 Gb/s for better performance.
Router/firewall device	A switch with wired Ethernet connectivity for the workstations to communicate with the 5big Storage Server. LaCie highly recommends using 1 Gb/s for better performance.
IP Address	The 5big Storage Server assumes that network devices receive their IP addresses from a DHCP server. For static IP configuration, see *1.6. Keyboard, Mouse, and Monitor for Troubleshooting*.

NOTE: The 5big Storage Server must have access to the internet for critical updates to Windows Storage Server 2008.

Minimum Operating System Requirements for Workstations on the Network
The latest versions of Windows XP, Windows Vista, and Windows 7
The latest versions of Mac OS X 10.5 and 10.6
Linux 2.6

NOTE: Find a suitable place to keep your 5big Storage Server safe, accessible, and well ventilated. The location you choose must have an available Ethernet connection to the network.

1.5.2. Default Name and Login

The 5big Storage Server is shipped with the following defaults:

Username - **Administrator**
Password - **LaCie5big** (case sensitive)
Server name - **5bigstorage**

1.5.3. Wireless Support

- You must use an Ethernet cable to connect the 5big Storage Server to your network.
- Computers that are attached to the network wirelessly may access 5big Storage Server data when given the proper rights.

1.5.4. Network and Server Recommendations

- For optimal performance, use a Gigabit Ethernet router or switch and a Gigabit Ethernet board in your client computer(s).
- For improved network performance and reliability, LaCie recommends the use of both Ethernet ports on the back of the 5big Storage Server. This is commonly referred to as "Teaming".
- While changing the username is optional, LaCie recommends that users update the password as soon as possible.
- Make certain to maintain the health of all the systems and hardware on the network. The 5big Storage Server's performance can be affected by such external forces as network activity, hardware, distance, and setup.

1.6. Keyboard, Mouse, and Monitor for Troubleshooting

The 5big Storage Server has a VGA and three USB 2.0 ports (*see 1.7.2. Rear View*) that may be used for connecting a monitor, mouse, and keyboard. Under normal operation, the 5big Storage Server may be accessed using Remote Desktop Connection for administration. When troubleshooting a problem related to the 5big Storage Server, LaCie recommends connecting a monitor, mouse, and keyboard directly to the server in order to rule out conflicts, such as problems with the network.

One example is setting a static IP address. As the default, Windows Storage Server 2008 receives its IP address from a DHCP server. To set a static IP, attach a monitor, USB mouse, and USB keyboard directly to the 5big Storage Server. To make the change, enter the static IP address in the Windows Storage Server 2008 network settings.

1.7. Views of the 5big Storage Server

1.7.1. **Front View** – *On/Off Button with Status LED (Fig. 01)*

1. On/Off power switch - The blue button on the front of the 5big Storage Server turns the unit on or off. The LED remains lit to show that the device is on.

NOTE: Pushing the front LED button while the 5big Storage Server is running will shut the system off. This is true even if the 5big Storage Server is in use. Please keep the unit in a location that will prevent accidentally pushing the front LED button while the 5big Storage Server is being accessed by users. When shutting down the 5big Storage Server, LaCie recommends selecting **Start>Shut Down.**

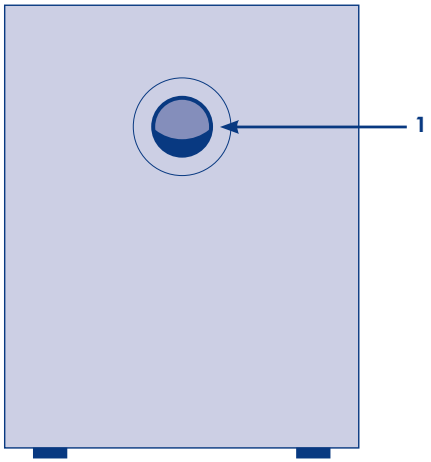


Fig. 01

1.7.2. **Rear View** – *(Fig. 02)*

2. Ethernet ports (2)

3. USB 2.0 expansion ports (3)

4. eSATA expansion port

5. VGA Monitor

6. Reset button*

7. Power input connection

8. Drive tray lock

9. Drive tray handle

10. Drive LED

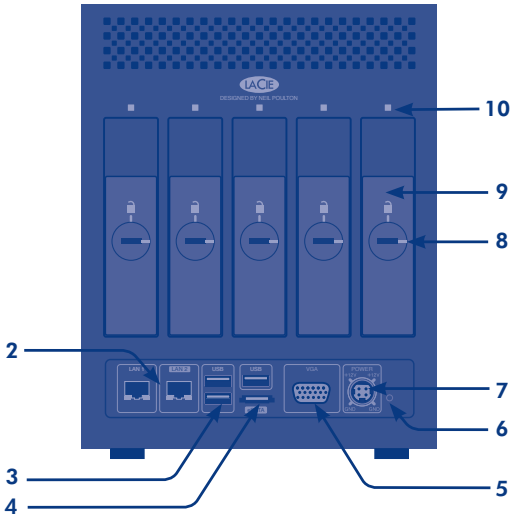


Fig. 02

*THIS IS AN EMERGENCY RESET ONLY. Use the pointed end of the drive lock tool to push the reset button (*Fig. 02 - 6*). Please make certain that users are not accessing the system since the 5big Storage Server will reboot upon pressing the button inside. In the event of an emergency reset, please check the health of the RAID in Windows Disk Management. In most cases, using the reset button will cause the software RAID to rebuild. Generally, the software RAID rebuild is non-destructive and will maintain the integrity of the data, though there may be instances where data is lost.

1.8. Removing and Installing New Disks

CAUTION: After continuous use, the LaCie 5big Storage Server drives may be hot. Use caution when removing a drive.

To remove a disk:

1. The drive tray may be locked. To unlock it, use the drive lock tool to turn the lock until the slot is vertical. (*Fig. 03*)
2. Draw out the drive tray by inserting your finger into the space behind the drive tray handle and pulling to disengage the drive. (*Fig. 04*)
3. Grasp the drive tray handle and carefully extract the drive (*Fig. 05*).

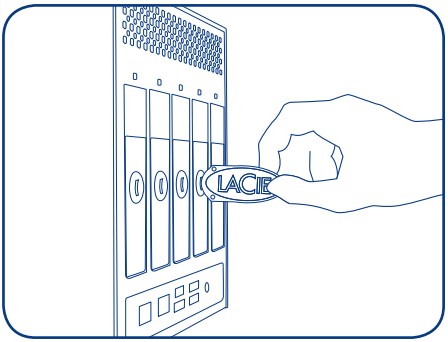


Fig. 03

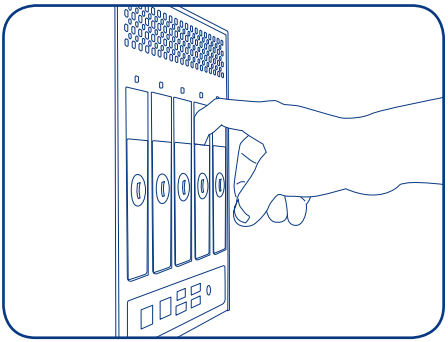


Fig. 04

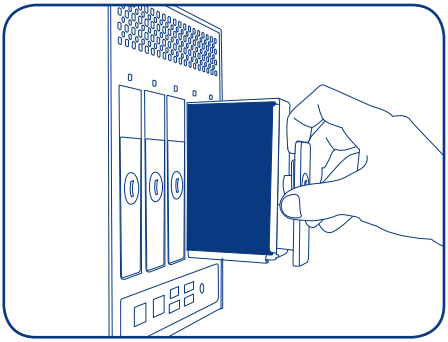


Fig. 05

To install a disk:

NOTE: In the event that an individual hard disk fails in the LaCie 5big Storage Server, contact your LaCie reseller or LaCie Customer Support. Please replace a defective hard drive with a replacement hard drive provided by LaCie. LaCie does not support inserting a non-LaCie hard drive into one of the 5big Storage Server slots.

Replacing or adding a drive involves two main steps, installing the new disk and adding it to the RAID array.

1. Carefully insert the drive tray into an empty drive bay. You should feel resistance when the drive tray is most of the way in the bay. Press the drive tray handle firmly until you feel the drive snap into place. The drive tray handle should be flush with the back of the 5big Storage Server.
2. Use the drive lock tool to lock the drive in place.

1.9. Ethernet Cable

Gigabit Ethernet Cables And Connectors

The cable used to attach Gigabit Ethernet devices is shown in *Fig. 06 - Ethernet Cable Ends*.

NOTE: LaCie recommends Cat 5E or Cat 6 cables, which support Gigabit Ethernet.

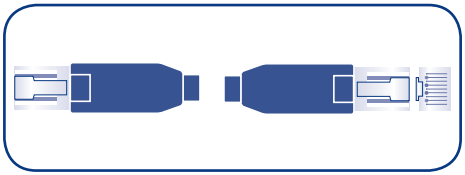


Fig. 06 - Ethernet Cable Ends

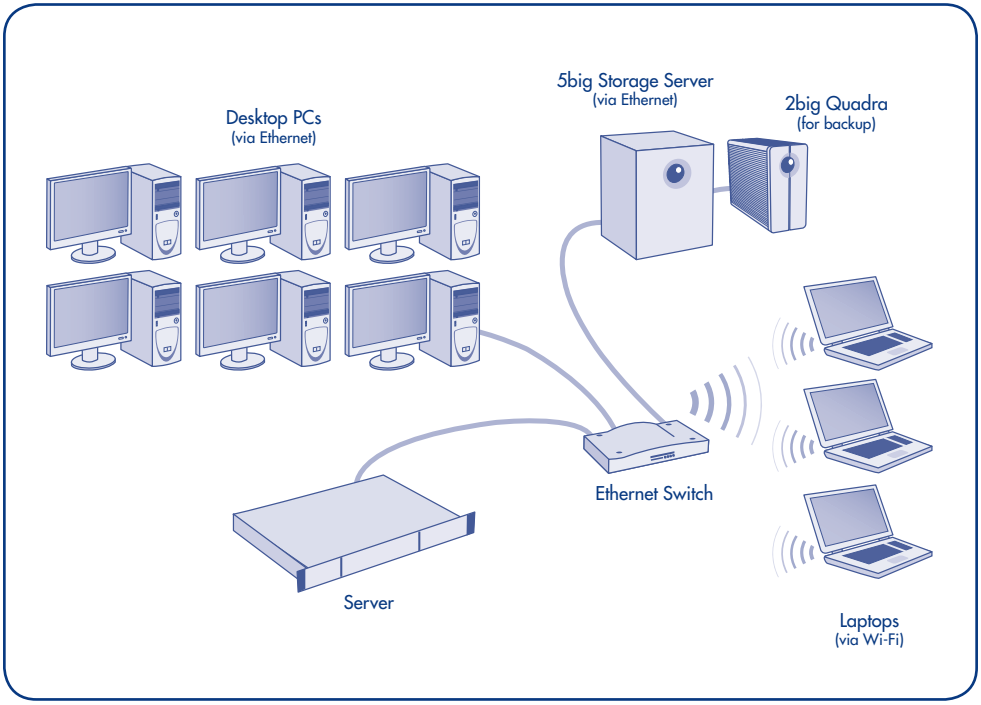


Fig. 07 - Network Configuration

1.10. Connecting the Power Cable

The power supply kit is composed of two cables: one cable (A) connects to the LaCie server; and the other cable (B) connects to a power outlet, such as a wall outlet or a surge protector (*Fig. 08*).

1. Connect Cable A to the 5big Storage Server.
2. Connect Cable B to the power supply brick (C).
3. Connect Cable B to a surge protector or wall outlet.

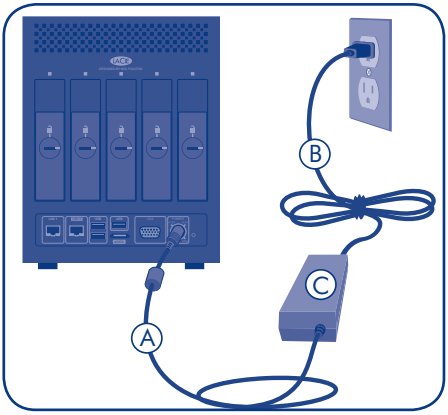


Fig. 08

CAUTION: Only use the AC adapter supplied with your specific LaCie device. Do not use a power supply from another LaCie device or another manufacturer. Using any other power cable or power supply may cause damage to the device and void your warranty. Always remove the AC adapter before transporting your LaCie disk drive system. Failure to remove the adapter may result in damage to your drive and will void your warranty.

NOTE: You may use your LaCie device when in a foreign country thanks to its 100-240 Volt power supply. However, you may need to purchase an appropriate adapter or cord. LaCie accepts no responsibility for any damage to the device or its drives resulting from the use of an inappropriate adapter. Using an adapter other than one authorized by LaCie will void your warranty.

1.11. Connecting the Ethernet Cable

The 5big Storage Server is accessible when attached to your network (*Fig. 07 - Network Configuration*).

1. Connect an Ethernet cable to one of the Ethernet ports on the back of the LaCie 5big Storage Server (*Fig. 09*). Please note that both ports may be used for greater performance and reliability.
2. Connect the other end of the Ethernet cable(s) into an available Ethernet port (or ports) on your router or switch (*Fig. 09*).

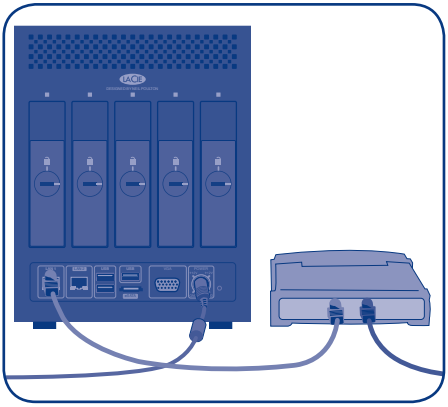


Fig. 09

NOTE: The 5big Storage Server is configured to receive its network IP address from a DHCP Server. To set a static IP, attach a monitor, USB mouse, and USB keyboard directly to the 5big Storage Server. To make the change, enter the static IP address in the Windows Storage Server 2008 network settings.

1.12. Administration

Similar to most servers, the 5big Storage Server may be administered remotely or using a monitor, mouse, and keyboard directly attached to the system (*1.6. Keyboard, Mouse, and Monitor for Troubleshooting*). When attempting to manage the device remotely, use Windows Remote Desktop Connection (**Start>Programs>Accessories>Remote Desktop Connection**). Enter the name of the 5big Storage Server (the default name is "5bigstorage") or its IP address to access the system.

Remote Desktop Connection is also available for Mac OS X and Linux.

1.13. LED Indicators

Front LED Color	Rear LED Color	5big Storage Server State
Solid Blue	Solid Blue	The system is healthy.
Solid Red	Solid Blue or off	Hardware error or the system cannot boot.
Blinking Blue	Blinking Blue then Solid Blue	The system is powering on.
Solid Blue	Blinking Red/Blue	SMART disk error(s). Launch the LaCie Hardware Monitor from the server desktop to check disk health.
Blinking Red/Blue	Solid Blue	Fan error.

2. Initial Setup

The 5big Storage Server is pre-installed with Windows Storage Server 2008, meaning that it is ready for network integration out of the box. Please take time to consider how you wish to manage the 5big Storage Server before storing data on the device.

2.1. RAID Configurations

The 5big Storage Server offers software RAID managed by Windows Storage Server 2008. Levels of RAID include 0, 1, 5, and Spanned. The default RAID configuration for the 5big Storage Server is:

System: RAID 1 (Mirrored)
Swap: RAID 5
Data: RAID 5

WARNING: Since changing the level of RAID deletes all data, LaCie highly recommends that you configure the preferred RAID(s) when first installing the 5big Storage Server.

NOTE: LaCie recommends RAID levels 1 and 5 since they offer data protection in the event of a single disk failure. Using RAID 0 and/or Spanned configurations could lead to unrecoverable data loss.

2.2. Start up and log in

To install your LaCie 5big Storage Server for the first time, you must connect a keyboard, mouse, and monitor to the device. Use the USB 2.0 and VGA ports on the back of the device (*1.7. Keyboard, Mouse, and Monitor for Troubleshooting*). Please do not run Remote Desktop Connection when first installing the 5big Storage Server.

Turn on the server by pushing the front LED (*1.7.1. Front View – On/Off Button with Status LED*). Allow a few minutes for the 5big Storage Server to start. Upon initial boot, follow the steps in the first use Set Up Windows Wizard (Language, Time Zone, etc.). The 5big Storage Server will reboot once you have made your selections.

To complete the installation, the 5big Storage Server will reboot again, after you log on. This is normal behavior following the setup.

Once the setup is complete and the system has restarted, you may manage the server from workstations on the network using Remote Desktop Connection. When logging in, enter the username, password, and server name for the 5big Storage Server. The defaults are:

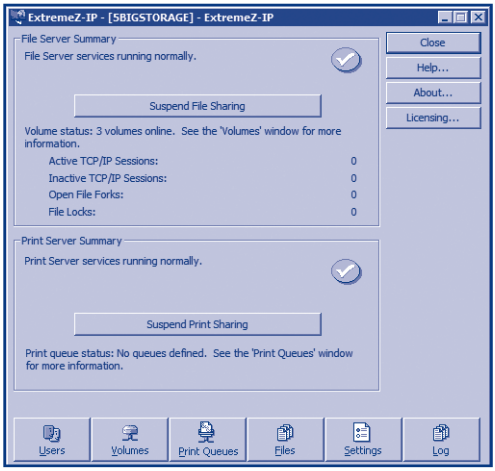
Username: **Administrator**
Password: **LaCie5big**
Server name: **5bigstorage**

You also have the option to maintain direct connection with the keyboard, mouse, and monitor.

The configuration window will launch when first logging into the 5big Storage Server. There are many features that are easily accessible in this window, including network configuration, scheduling updates, and firewall configuration.

The 5big Storage Server has shortcuts on the desktop for registering your LaCie product and launching the Server Manager or the Hardware Monitor. The Server Manager provides access to all the management functions of the 5big Storage Server, including Disk Management for RAID and Provision Sharing to set up volume and file sharing. The Hardware Monitor lists environmental, disk, and power management information.

To administer Mac clients, go to **Start>EZ-IP administrator**. For additional information see the GroupLogic guide stored on the included CD.



Contact Us

LaCie Asia
25/F Winsan Tower
98 Thomson Road
Wanchai, Hong-Kong, China
info.asia@lacie.com

LaCie Australia
458 Gardeners Road
Alexandria, NSW 2015
info.au@lacie.com

LaCie Benelux
Vorstlaan / 165 Bld du Souverain
B-1160 Brussels, Belgium
info.benelux@lacie.com

LaCie Canada
235 Dufferin St.
Toronto, Ontario M6K 1Z5
info.ca@lacie.com

LaCie France
17, rue Ampère
91349 Massy Cedex
info.fr@lacie.com

LaCie Germany
Am Kesselhaus 5
D-79576 Weil Am Rhein
info.de@lacie.com

LaCie Italy
Milano Business Park
Edificio B1
Via dei Missaglia 97
20142 Milano
info.it@lacie.com

Elecom – Japan
http://www.lacie.jp/support/

LaCie Nordic
(Sweden, Denmark, Norway, Finland)
Sveavägen 90, 5tr
113 59 Stockholm, Sweden
info.nordic@lacie.com

LaCie Spain
C/ Núñez Morgado, 3, 5ª pl.
28036 Madrid
info.es@lacie.com

LaCie Switzerland
Davidsbodenstrasse 15A
4004 Basel
info.ch@lacie.com

LaCie United Kingdom and Ireland
LaCie Ltd, Power Road Studios
114 Power Road
Chiswick, London, UK W4 5PY
UK: info.uk@lacie.com
Ireland: info.ie@lacie.com

LaCie USA
22985 NW Evergreen Pkwy
Hillsboro, OR 97124
sales@lacie.com

LaCie Worldwide Export
17, rue Ampère
91349 Massy Cedex, France
sales.intl@lacie.com
support.intl@lacie.com

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